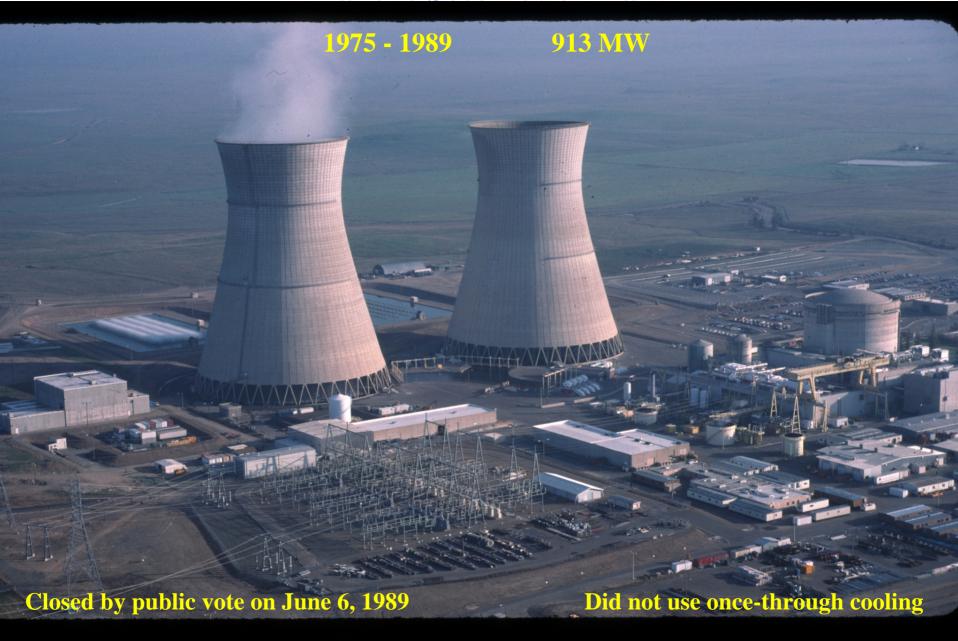
California's Nuclear Power Plants

California Energy Commission
Joanna Reinhardt
August 16, 2005

Humboldt Bay Power Plant



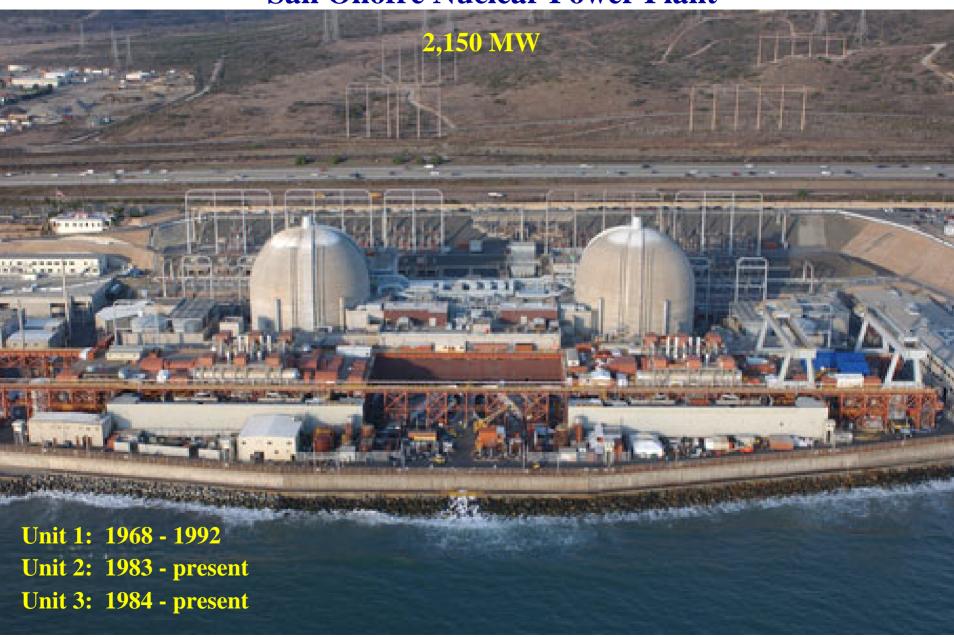
Rancho Seco Power Plant



Diablo Canyon Nuclear Power Plant



San Onofre Nuclear Power Plant



Once-Through Cooling

Used in both nuclear and non-nuclear coastal power plants

Seawater: free, abundant, and cold

Effective and relatively inexpensive method for re-condensing super heated steam after it has been used to generate power

Total Permitted Water Volumes (million gallons/day)



Diablo Canyon: 2,540 2,160 MW

San Onofre: 2,390 2,150 MW

Moss Landing: 864 2,538 MW

Morro Bay: 668 1,002 MW

Huntington Beach: 516 788 MW



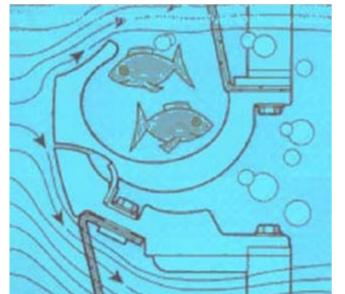


San Onofre Mitigation Measures



Behavioral Barrier

impingement



Fish return system with Ristroph Screens

Wetland Restoration entrainment

Kelp Reefs



San Onofre Kelp Forest

Status of NPDES Permit

Renewed permit: May 21, 2005

Expiration: May 11, 2010

Held to new Phase II regulations

Full impingement & entrainment analysis

Status of Diablo Canyon Power Plant?

Stay tuned for Michael Thomas (Central Coast Regional Water Quality Control Board)